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Professor (Physics) at University of Manchester In this course I shall discuss nuclear and particle physics on a somewhat phenomenological level. The mathematical sophistication shall be rather limited, with an emphasis on the physics and on symmetry aspects.

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In nuclear and particle physics masses, length and time can be expressed in terms on energies. The Minkowsky product is invariant under Lorentz transformation, that is it is the same in every frames. Units In this course we will use so-called "natural units". We use physical constants to define what is one unit of a given quantity.

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This article summarizes equations in the theory of nuclear physics and particle physics. Definitions. Quantity (common name/s) (Common) symbol/s Defining equation SI units Dimension Number of atoms $N =$ Number of atoms remaining at time t . $N_0 =$ Initial number of atoms at time $t = 0$ $N_D =$ Number of atoms decayed at ...

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